

Index

Symbols

101 e-Learning Seminar Methods 43, 65

A

abstraction 1, 5, 13, 14
 Accessibility 111
 Accrual 115
 Activity Sequence 91
 adaptivity 200
 advanced pattern user 151
 aggregated groups 170
 agile software development 258, 270
 Alexander, Christopher 2, 3, 4, 5, 6, 7, 8, 10, 11, 15, 16, 108, 116, 118, 119, 130, 136, 137, 145, 171, 181, 182, 183, 189, 258, 269, 272, 273, 274, 275, 277, 279, 280, 282, 283
 Alexander's fifteen properties of living centers 272, 273, 275, 279, 282
 Alternatives 48, 53, 58
 anchored instruction 237, 241, 242
 application programming interface (API) 228, 230, 232, 233
 architecture 272, 283
 ArgueGraph 73
 Artifactual approach 11
 ASK-LDT 138
 Assessment patterns 76
 Asynchronous JavaScript and XML (AJAX) 153
 Austrian Federal Ministry for Education, Arts and Culture 43
 AUTC Learning Designs Project 43

B

beginner pattern user 151, 161
 behavioral patterns 170, 171, 175, 178
 Bergin, Joseph 258, 259, 270
 blended learning 149, 168
 BMUKK Virtual School Austria Scenario Description 43
 Bologna Process 62

C

Canonicity and breach 115
 Catalog of didactic models 44
 Classroom Display design pattern 200, 205, 206, 215, 216
 cognitive psychology 258
 collaborative Learning Designs 138
 Collaborative Learning Flow Patterns (CLFP) 73, 74, 75, 77, 78, 79, 80, 81
 Collaborative Reflection Workshop 119, 121, 122, 124, 125, 126, 128
 Collage 74, 75, 81, 82, 83, 85
 Comments 48, 52, 53, 59
 community-based learning 182
 community of practice 151, 167
 Computer Assisted Assessment (CAA) 220, 221, 222, 224, 225, 233, 234
 computer-mediated communication (CMC) 165, 167
 computer mediated interaction 181
 computer scientists 272
 Computer-Supported Collaborative Learning (CSCL) 72, 73, 74, 75, 76, 77, 78, 79, 80, 83, 84, 85, 138, 147
 constructivism 191, 238, 239

constructivism, moderate 191
 constructivistic didactic 193
 content management system (CMS) 164
 Conversational Framework 86, 87, 88, 95, 96,
 97, 98, 99, 100, 101, 102, 103
 Copper 138
 core problem 31, 32
 COSMOS Project 44, 138
 Cozy Dinner 188
 creativity 247, 248, 249, 250, 253, 254
 CSCL scripting design patterns 72
 CSCL scripts 72, 73, 74, 75, 76, 77, 78, 83, 85
 Cumulativity 111

D

Data Map XML 231
 democratizing design knowledge 107
 design-based research (DBR) 109, 111
 Design Narratives 113, 115, 119, 121, 123,
 124, 125, 126, 127, 128
 Design Narratives Workshop 119, 121, 123,
 124, 126, 127, 128
 design patterns 2, 4, 8, 11, 12, 13, 16, 17, 18,
 72, 73, 74, 76, 77, 78, 83, 84, 136, 139,
 171, 178, 179, 199, 200, 202, 203, 204,
 205, 216, 217, 218, 247, 248, 249, 250,
 257, 272, 274
 Design Patterns Workshop 119, 121, 124, 125,
 128
 Design pattern templates 45
 Design Scenarios Workshop 119, 121, 124,
 128, 129
 design teaching 170
 Didactical Patterns of the Project VIB 64
 didactic design pattern, didactic motivation
 191, 192
 didactic design pattern, implementation 191,
 192, 193
 didactic design pattern, metadata 191, 192
 didactic design pattern, reflection 191, 192
 didactic design patterns 191, 193, 197
 Didactic Process Map (DPM) 135, 137, 138,
 140, 141, 142, 143, 144, 145
 Didactic Scenarios 137
 digital media 61, 62, 64, 65, 66, 67
 digital native 151

digital tools 86
 Discussion Forum 20, 21, 33
 Draw-And-Tell game 123

E

Early Bird pattern 259, 264, 265, 266, 268
 e-assessment 13, 199, 200, 202, 203, 204, 209,
 216, 217, 218
 ecosystems 225, 226
 educational modeling languages (EMLs) 136,
 148
 educational patterns 2, 15, 61, 62, 64, 65, 66,
 67, 69
 educational scenarios 272, 273, 275, 277, 278,
 279, 283
 educational taxonomies 272, 273, 275, 276,
 277
 effective learning designs 137
 Ehrenfels, Christian von 23, 39
 Einsiedler, Wolfgang 63
 e-learning 43, 45, 54, 62, 65, 107, 108, 110,
 111, 130, 170, 171, 173, 178, 199, 217,
 220, 221, 228, 234
 E-Learning Design Patterns Repository 3
 E-Learning patterns 2
 e-learning research community 72
 e-learning seminars 43
 e-learning system 186
 electronic learning 149
 ELectures Portal University of Freiburg 69
 E-LEN Pattern Repository 64
 E-LEN Project 152
 empirical navigational paths 170, 174, 178
 end-user software engineering 166
 envelope 120
 eQuestionnaires 220, 221, 222, 224, 225, 227,
 228, 230, 231, 235
 e-teaching 62, 63, 66, 67, 69, 70, 71
 ethereal abstractions 107
 European Pattern Languages of Program con-
 ference (EuroPLoP) 3
 expert knowledge 4, 107, 116, 128
 Explicit notation 136
 Expressiveness 111
 Extensible Markup Language (XML) 153, 158
 eXtreme Programming 186

Index

F

faceted classification 161
feedback 191, 193, 194, 195, 196, 197, 198
feedback, anonymous 196
feedback, non-anonymous 196
Feedback on Feedback design pattern 200,
205, 206, 214, 215
flow patterns 248, 250, 255
folksonomy 161
formative assessment 199, 200, 201, 202, 205,
207, 209, 211, 213, 214, 215, 217, 218
formative e-assessment (FEASST) 199, 200,
205, 206, 216
Functional-pragmatist orientation 111

G

Gang-of-Four 8
general didactical patterns 170, 174, 177
General Didactics 174
generic model 86
generic teaching method 41
Gestalten 24, 29
Gestalt Laws 23
Gestalt psychologists 22, 23, 29
Gestalt psychology 22, 39
Gestaltqualität 23, 38
Gestaltqualitäten 23, 24, 39
Gestalt theory 23, 39
Goethe 23, 26, 39
Goethe's Morphology 23
GoogleMaps 222, 225, 227, 228, 229, 231,
232, 233, 234
grammar 272, 274, 275
Granularity 1, 5, 14
Graphical Learning Modeller 47
Graphical Representation 44, 47, 51, 52, 53, 57
groupware systems 247, 248
Grundlagen hypermedialer Lernsysteme 64, 71

H

Handbuch Didaktischer Modelle 65
human-centric 154
human-computer interaction (HCI) 258
humanization 152
human-to-human communication 149

Hundred Years' War 240

I

ICOPER 90, 91, 92, 103, 105
Identification-Development-Refinement (IDR)
164, 169
idSpace project 248, 254
IMS-LD 136, 138
IMS Learning Design (IMS-LD) 74, 75, 81, 82
instructional methods 61
intellectual property rights (IPR) 151, 160
interaction design 181
interactive questions 221
internal laws 23
Introspective approach 11

J

Jigsaw Group 143
JISC Mod4L Project 44
JISC Pedagogical Vocabularies Project 44, 54
Joan of Arc 240, 241
Joint Information Systems Committee (JISC)
43, 44, 46, 54, 199, 200

K

knowledge, explicit 261, 265, 268, 270, 271
knowledge, implicit 257
knowledge, procedural 258, 259, 260, 261,
262, 263, 264, 265, 266
knowledge, tacit 261, 268, 270, 271
Koper, Ron 136, 146, 147, 148

L

language taxonomy 272, 273, 274, 275, 276,
277, 283
Laurillard, Diana 108, 133, 200, 202, 212, 218
Laurillard's Conversational Framework 200,
202
Learning Activity Management System
(LAMS) 90, 92, 93, 94, 99, 100, 103,
105, 138, 139, 140, 144, 146, 147
learning activity patterns 77
learning aid 150

learning design (LD) 86, 87, 88, 89, 90, 92, 93, 94, 95, 98, 99, 101, 102, 103, 104, 136, 138
 learning design patterns 87, 171
 Learning Design Support Environment (LDSE) 86, 87, 90, 95, 98, 103
 learning environment 170, 171, 172, 174, 175, 178
 learning management system (LMS) 75, 193, 196, 197
 learning patterns 72, 74, 75, 76, 77, 80, 81, 84, 172
 learning processes 170, 171, 178, 191, 193, 198
 learning scenarios 137
 learning theories 87, 88, 93, 94, 95, 97, 98, 99, 100, 102, 103
 Lerneinheiten 172
 Levenshtein-Distance 173, 175
 living centers 272, 273, 274, 275, 277, 280, 281, 282, 283, 284

M

manifold methods 42
 masking 239, 242, 245
 Mask the Task approach 237, 239, 241, 245, 246
 measures of central tendency 172, 175, 176
 MediaWiki 159, 161
 Medium-neutrality 136
 meta-patterns 272
 meta-pattern structure 191
 Methodenausprägungen 63
 Methodengroßformen 63
 Methodengrundformen 63
 micro-navigation 172
 middleware 230, 231, 232, 235
 MiddleWeb Listserv 254
 MindTools 254
 Mod4L project 42, 46, 47
 MOT+ 138
 Multiple Choice Test 33, 34, 35, 37

N

Narrative Spaces design pattern 200, 205, 206, 215, 216

natural language 4
 The Nature of Order: The Phenomenon of Life (TNO) (book) 273, 274, 275, 280, 284
 navigational patterns 171, 176, 177
 navigational tree 172
 New questionItems pattern 227, 230
 Nodding Dog 185, 186
 non-generative patterns 155

O

Object-Oriented Programming, Systems, Languages & Applications (OOPSLA) 3, 16
 object-oriented software programming 258
 Objects to Talk With design pattern 200, 206, 215, 216
 On Gestalt Qualities 23
 Online Lecture 25, 27
 online presentations 14
 online seminars 14
 online training 6, 14
 On-Site Lecture 27
 Open Educational Resources 69
 open source software (OSS) 159
 optimal matching 170, 172, 173, 174, 175, 177, 178
 Orchestral Manoeuvres in the Dark (OMD) 240
 Organic.Edunet 44

P

paper-based questionnaires 221
 pareto-principle 135, 140, 145
 Participatory Methodology for Practical Design Patterns 118, 119
 pattern administrator 151, 158, 163
 pattern author 151, 152, 154, 155, 160, 163
 pattern catalogues 41, 43
 pattern community 150, 151, 152, 155, 160, 161, 164, 166
 pattern consumers 151, 152, 160, 161, 163, 165, 166
 pattern definitions 79
 pattern descriptions 1, 4, 7, 9, 13, 14, 19, 32, 34, 35, 36, 150, 157, 158, 163, 164
 pattern engineer 151, 158
 pattern evaluator 151

Index

pattern form 150, 156, 158
pattern format 29, 30, 38
Pattern Language Network 3, 64
Pattern Languages of Teaching conference 3
pattern languages (PL) 2, 8, 11, 29, 151, 157,
158, 161, 166, 167, 168, 191, 221, 225,
235, 247, 255, 258, 259, 269, 272
pattern management system (PMS) 164, 165
Pattern Mining-Workshops 11
Pattern Oriented Software Architecture (POSA)
8
pattern producers 151, 161, 165, 166
pattern production process (P3) 153, 154, 155,
156, 157, 158, 160, 165, 166
pattern reader 151, 158
patterns 1, 2, 3, 5, 6, 7, 9, 10, 11, 12, 13, 14,
15, 16, 17, 18, 19, 20, 25, 29, 34, 37, 39,
40, 61, 62, 64, 66, 69, 70, 149-168, 181-
190, 257-274, 277
pattern sequence 151
Patterns for Classroom Education 3, 9
pattern shepherd 151, 154, 160
pattern stakeholder 151
pattern story 151
pattern template 29, 37, 38
pattern user 151, 161, 163
pattern Writers' Workshop participant 151
pattern writing processes 258
pedagogical community 181
pedagogical design patterns 73, 78, 88, 90, 93
pedagogical pattern language 272
Pedagogical Pattern Project (PPP) 3, 64, 88,
141, 152, 183, 258, 259
pedagogical patterns 3, 88, 90, 91, 92, 94, 95,
102, 103, 137, 146, 181, 182, 183, 184,
189, 272, 273
pedagogical tool 149
pedagogic scenario collections 41, 43
Peer Review 48, 52, 59
Person-Centered e-Learning (PCeL) patterns
45
Phoebe Pedagogical Planner 45
Planning and Preparation phase 195, 196
PLoP conference 141, 187
Portland Pattern Repository 258
PO-SW-PMS 165

practical enquiry days 199, 205, 214
practical enquiry days (PED) 200, 202, 204
Pragmatism 109, 133
Problem of Abstraction 26
Project Blog 30
project management 181, 183
proto-pattern 155, 156, 157, 158, 160
Public Subject Identifier (PSI) 66
Purism 109

Q

quality without a name (QWAN) 273
Question and Test Interoperability (QTI) 220,
222, 225, 227, 228, 229, 231, 232, 233,
234, 235, 236

R

Real World Patterns 5
References 48, 53, 59
related patterns 4, 8
RELOAD 138, 148
Resources 48, 57
resulting context 78, 80, 82, 83
Roles 48, 57
Round and Deep design pattern 200, 205, 206
RUBcast-Portal University of Bochum 69
Rule of Three 157

S

Schema theory 1
Sentence Arrange Test 34
Sequence of Activities 48, 57, 90, 91, 92, 95
Shared Group Space 20, 21, 22, 33
shepherding 160
shepherding process 258, 263, 267, 269
Showcase Learning design pattern 200, 204,
205, 206, 209, 214, 215, 216
Simon, Herbert 108, 109, 110, 116, 130, 134
single script learning 75
Six Sigma methodology 254
Six Thinking Hats, Black Hat 251, 252, 253
Six Thinking Hats, Blue Hat 251, 252, 253
Six Thinking Hats Creativity technique 247,
248, 249, 250, 253, 254
Six Thinking Hats, Green Hat 251, 252, 253

- Six Thinking Hats, Red Hat 251, 253
 - Six Thinking Hats Testimonials 254
 - Six Thinking Hats, White Hat 251, 253
 - Six Thinking Hats, Yellow Hat 251, 252, 253
 - sociable design 165
 - Social approach 11
 - social bookmarking 156
 - social dimension 191
 - social experience 165
 - socialization 152
 - Social Pattern Analysis 171
 - social practice 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269
 - social requirements 165
 - Social Web 149, 150, 151, 152, 153, 154, 156, 157, 158, 160, 161, 162, 163, 164, 165, 166, 168
 - socio-technical systems 182
 - Soft Scaffolding design pattern 200, 205, 206
 - software engineering 181, 182, 183, 257, 272
 - software problems 257
 - Solution 90, 91, 95
 - Standardized notation 136
 - strategic planning 253
 - Student feedback 44, 48, 50, 53, 59
 - student skill assessment 222
 - subpatterns 272
 - symbiotic relationship 165
- T**
- Table-Top Concept Mapping 123, 127
 - targeted consulting 177
 - Teacher Reflection 48, 50, 58
 - teaching best practices 272
 - teaching method 41, 42, 46, 47, 48, 49, 50, 51, 52, 53, 56, 58
 - teaching patterns 172
 - Technical University Clausthal 69
 - technology-enhanced educational scenarios 44
 - technology-enhanced learning (TEL) 158
 - Technology-neutrality 136
 - techno-pedagogical design patterns 184
 - TELL project 74, 79, 85, 90, 91, 92, 103, 105, 138, 139
 - The Nature of Order 29, 39
 - The Timeless Way of Building 10
 - thick description 114
 - This Reminds Me Of exercise 123
 - Three-Hats discussion 123
 - TimeLine multimedia service 229, 235, 236
 - TinyWiki 159
 - traceability 111
 - Transparency 111
 - Try Once, Refine Once design pattern 200, 205, 206, 212, 214, 215, 216
 - Tübingen, Germany 182, 189
 - Type of Assessment 48, 57
- U**
- unified modelling language (UML) 45, 222, 236
 - unit of assessment (UoA) 222, 224, 225, 234
 - University of Applied Sciences in Dortmund 186
 - University of Hamburg 181, 187, 188
 - Use My Stuff design pattern 200, 219
 - User Actor concept 222, 223
- V**
- VCQ pattern 238
 - ViB Project 45
 - VideoClipQuests (VCQ) 237, 238, 240, 241, 242, 243, 244, 245, 246
 - video clips 237, 238, 239, 240, 241, 243, 244, 245
 - videos 237, 238, 239, 240, 241, 242, 243, 244, 245, 246
 - Virtualization in Education (ViB) 45
- W**
- Wear Your Skills on Your Shirt design pattern 200
 - Web 2.0 150, 168, 169, 220, 222, 225, 227, 228, 229, 230
 - Web 2.0 services 228, 230
 - Webcasts 68
 - Web-Didaktik 172, 174, 178, 179
 - WebQuests 48, 51, 52, 56, 57, 58, 59, 237
 - Wertheimer, Max 22, 23, 24, 39, 40
 - Wholeness 5

Index

Wholeness and Design 28

Whole Parts 21, 22

Wiki 2, 6, 154, 158, 159, 160, 163, 167

workflow 153, 154, 156, 158, 160

Writer's Workshop 3, 9, 10, 11, 151, 160, 164,
186, 187

Y

Yahoo! Interaction Pattern Library Authors

Group 152

YouTube 241, 245